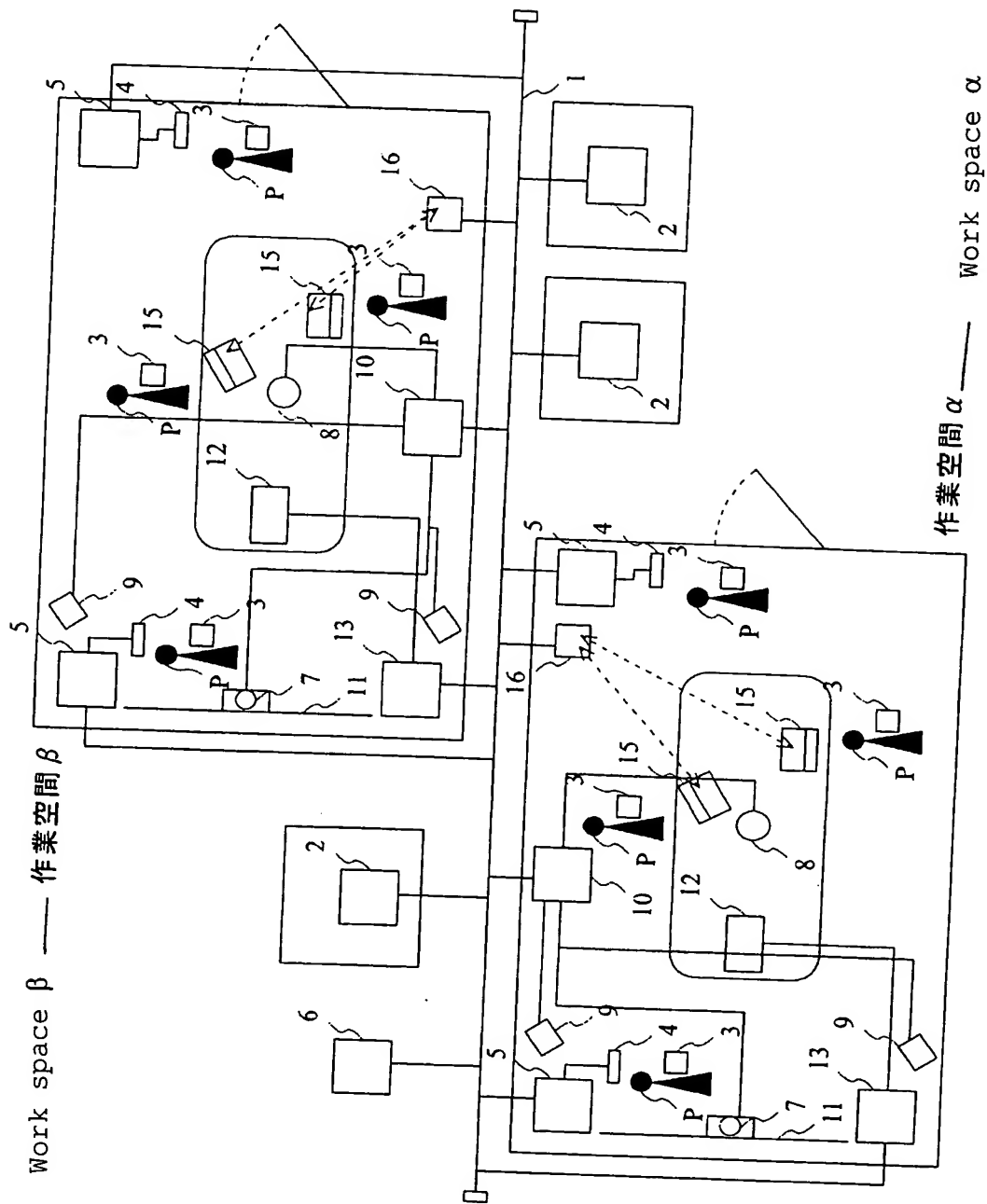


Fig. 1

Constitution of system

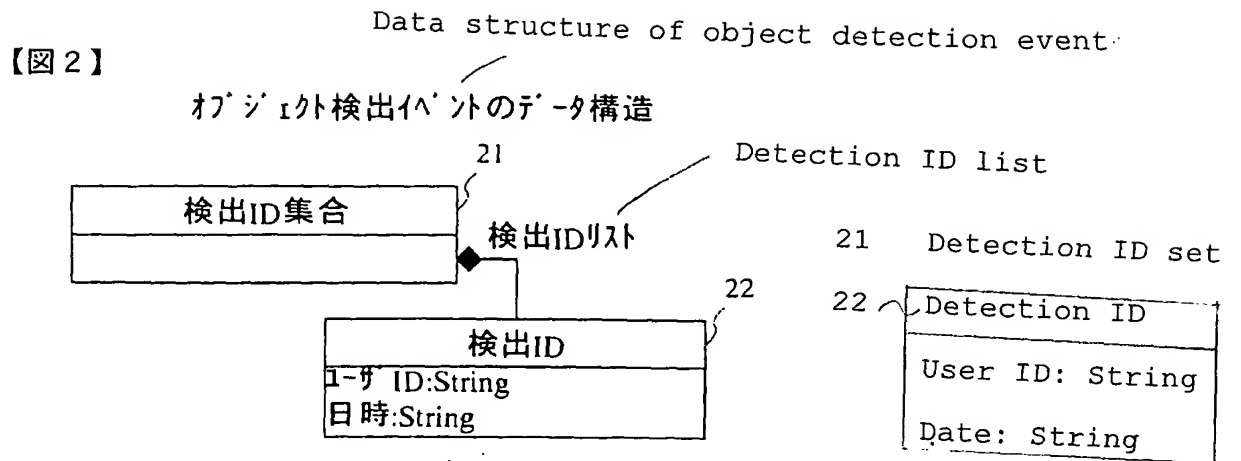
システム構成



【書類名】
【図1】

図面

Fig. 2



Detection of object and sending of object detection message

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オブジェクトの検出とオブジェクト検出メッセージの送信

Fig. 3A

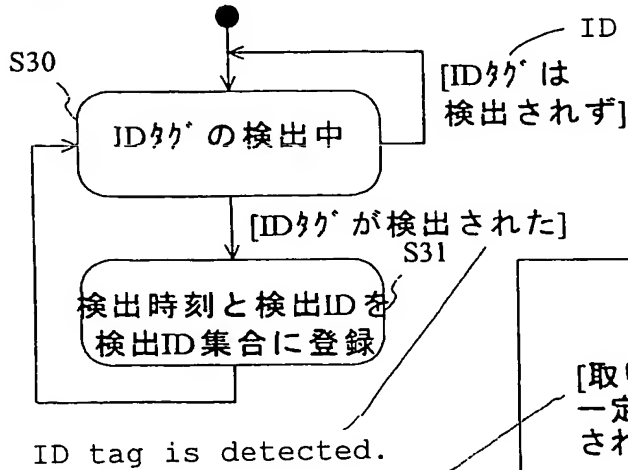
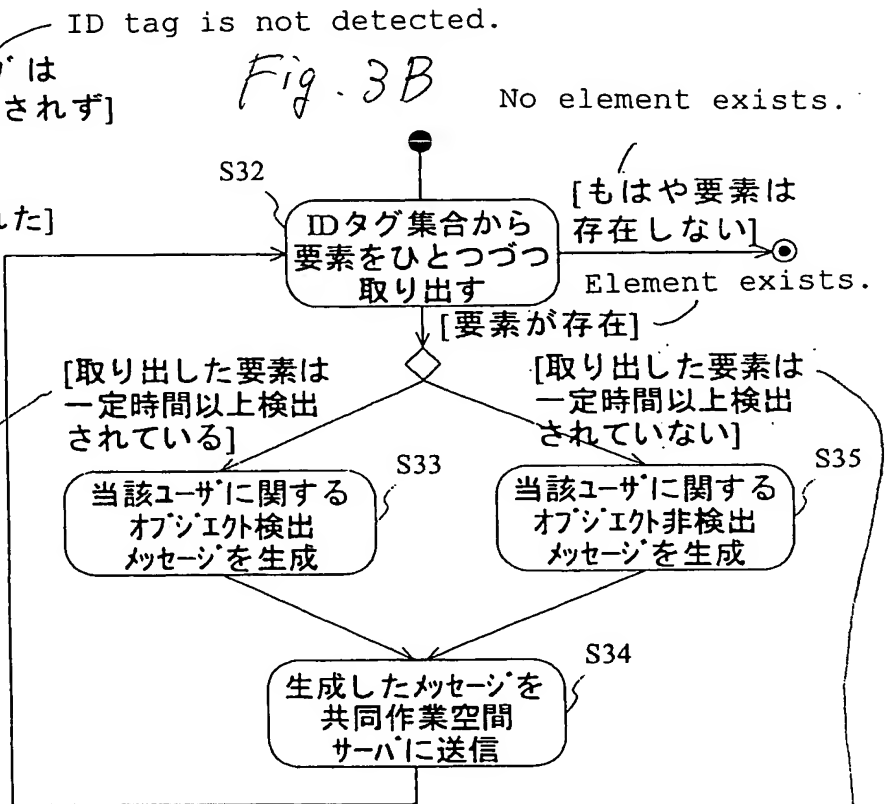


Fig. 3B



Element picked up is detected for not less than predetermined period of time.

Element picked up is not detected for not less than predetermined period of time.

S30 ID tag is being detected.

S31 Register detection time and detection ID in detection ID set.

S32 Pick up element one by one from ID tag set.

S33 Object detection and message generation with respect to user concerned.

S34 Send message generated to common work space server.

S35 Generate object non-detection message with respect to user concerned.

【図4】

Object detection message

オブジェクト検出メッセージ

41

Fig. 4A

```
<?xml version="1.0" encoding="Shift-JIS" ?>
<sensedinfo>
  <messageid>13C57A9B11D1E3</messageid>
  <status>detected</status>
  <objectid>2A4A6D81CB012</objectid>
  <datetime>10:23:15 July, 20, 2002</datetime>
  <tagreaderid>5B10A1CF5D20</tagreaderid>
</sensedinfo>
```

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Fig. 4B

```
<?xml version="1.0" encoding="Shift-JIS" ?>
<sensedinfo>
  <messageid>1A35D791F1A13</messageid>
  <status>disappeared</status>
  <objectid>24A68DB1F01E2</objectid>
  <datetime>10:23:15 July, 20, 2002</datetime>
  <tagreaderid>5C1D0BA1E52B0</tagreaderid>
</sensedinfo>
```

53	Activity event reference
	Activity history server: URL
	Object ID: String
	Detection starting date: String
	Detection ending date: String
	Place ID: String
	Place name: String

Data structure of collaborative activity context

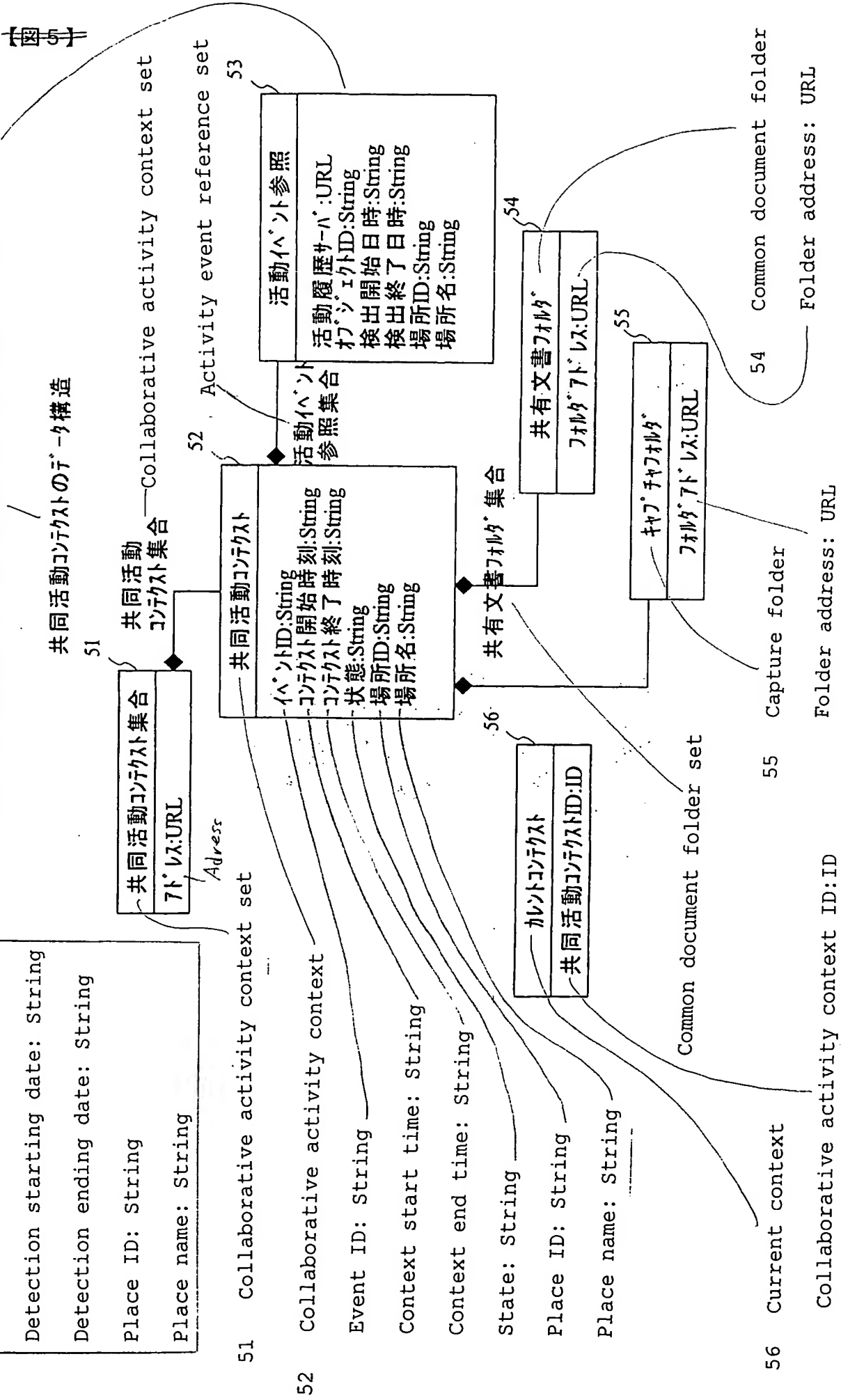


Fig. 5

【図6】

オブジェクトの検出とオブジェクト検出メッセージの送信

Fig. 6A

(a)

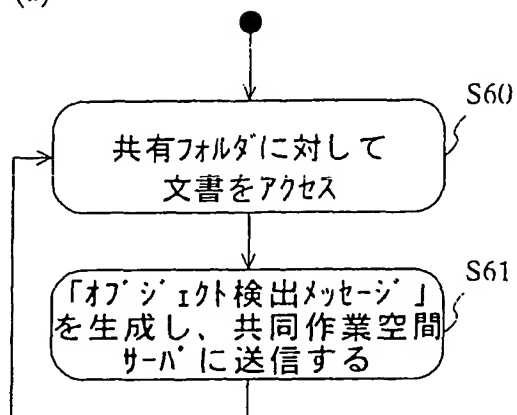
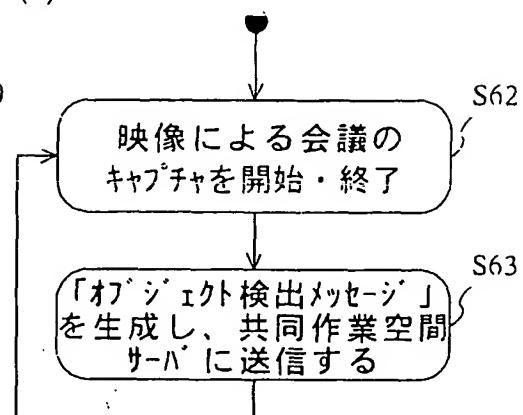


Fig. 6B

(b)



Detection of object and sending of object detection message

S60 Let document make access to common folder.

S61 Generate "object detection message" and send it to common work space server.

S62 Start and finish capture of conference conducted by images.

S63 Generate "object detection message" and send it to common work space server.

Fig. 7

【図7】

キャプチャ映像再生ビュー

Reproduce and view capture image.

Meeting of design

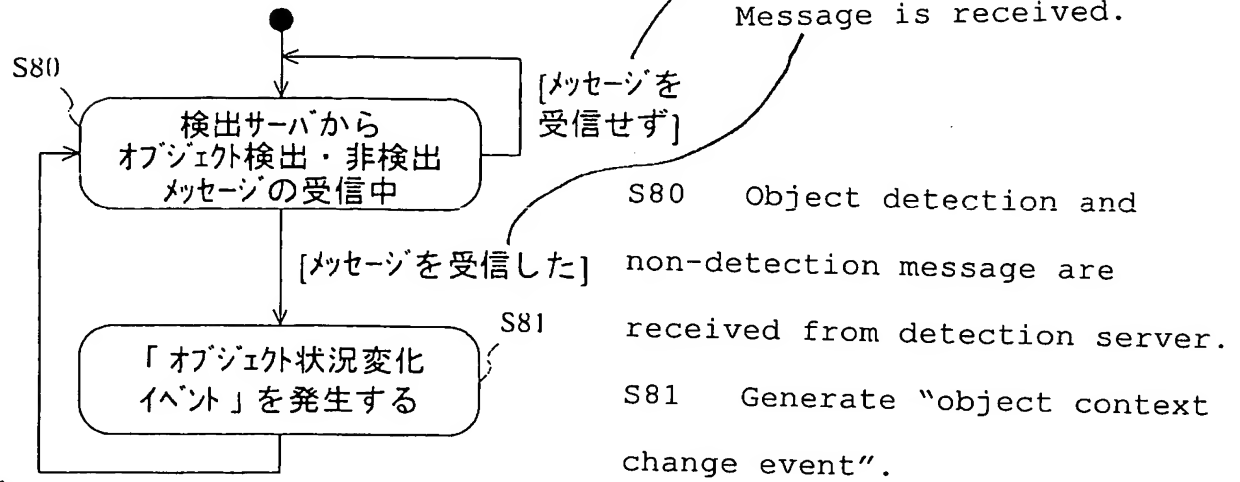


【図8】

Processing of generation of object context change event

オブジェクト状況変化イベントの発生処理

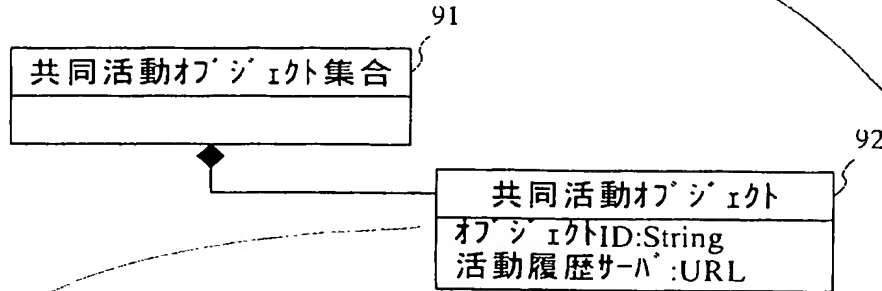
Fig. 8



【図9】

Fig. 9

共同活動オブジェクトのデータ構造



Data structure of collaborative activity object

91 Collaborative activity object set

92 Collaborative activity object

Object ID: String

Activity history server: URL

Fig. 10

【図10】

Activity event registration message

活動イベント登録メッセージ

101

(a)

```
<?xml version="1.0" encoding="Shift-JIS" ?>
<activityevent>
  <messageid>2A1D3C4B6C5</messageid>
  <status>appeared</status>
  <credential>67F1B3E7A9D</credential>
  <objectid> 24A6C8D1E01A2 </objectid>
  <objecttype>person</objecttype>
  <datetime>15:32:05 July, 20, 2002</datetime>
  <workspaceid>97A5CA3FD2B6</workspaceid>
  <workspacename>会議室21</workspacename>
  <previous>http://www.alpha.net/3D2A4356BC36B.xml</previous>
</activityevent>
```

(b)

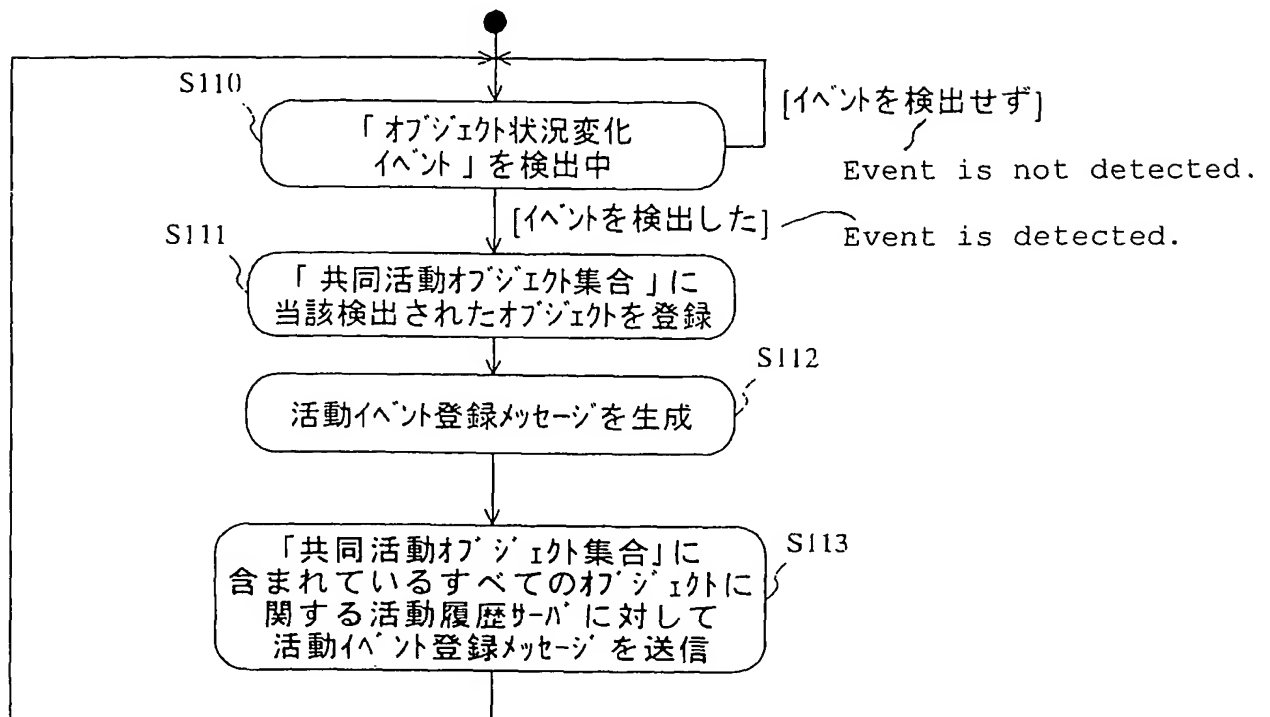
```
<?xml version="1.0" encoding="Shift-JIS" ?>
<activityevent>
  <messageid>2A1D3C4B6C5</messageid>
  <status>disappeared</status>
  <credential>67F1B3E7A9D</credential>
  <objectid> 24A6C8D1E01A2 </objectid>
  <objecttype>person</objecttype>
  <datetime>15:32:05 July, 20, 2002</datetime>
  <workspaceid>97A5CA3FD2B6</workspaceid>
  <workspacename>会議室21</workspacename>
  <previous>http://www.alpha.net/3D2A4356BC36B.xml</previous>
</activityevent>
```

Conference room

102

Fig. 11

【図 1-1】

activity history server
活動イベントの活動履歴サーバへの通知処理

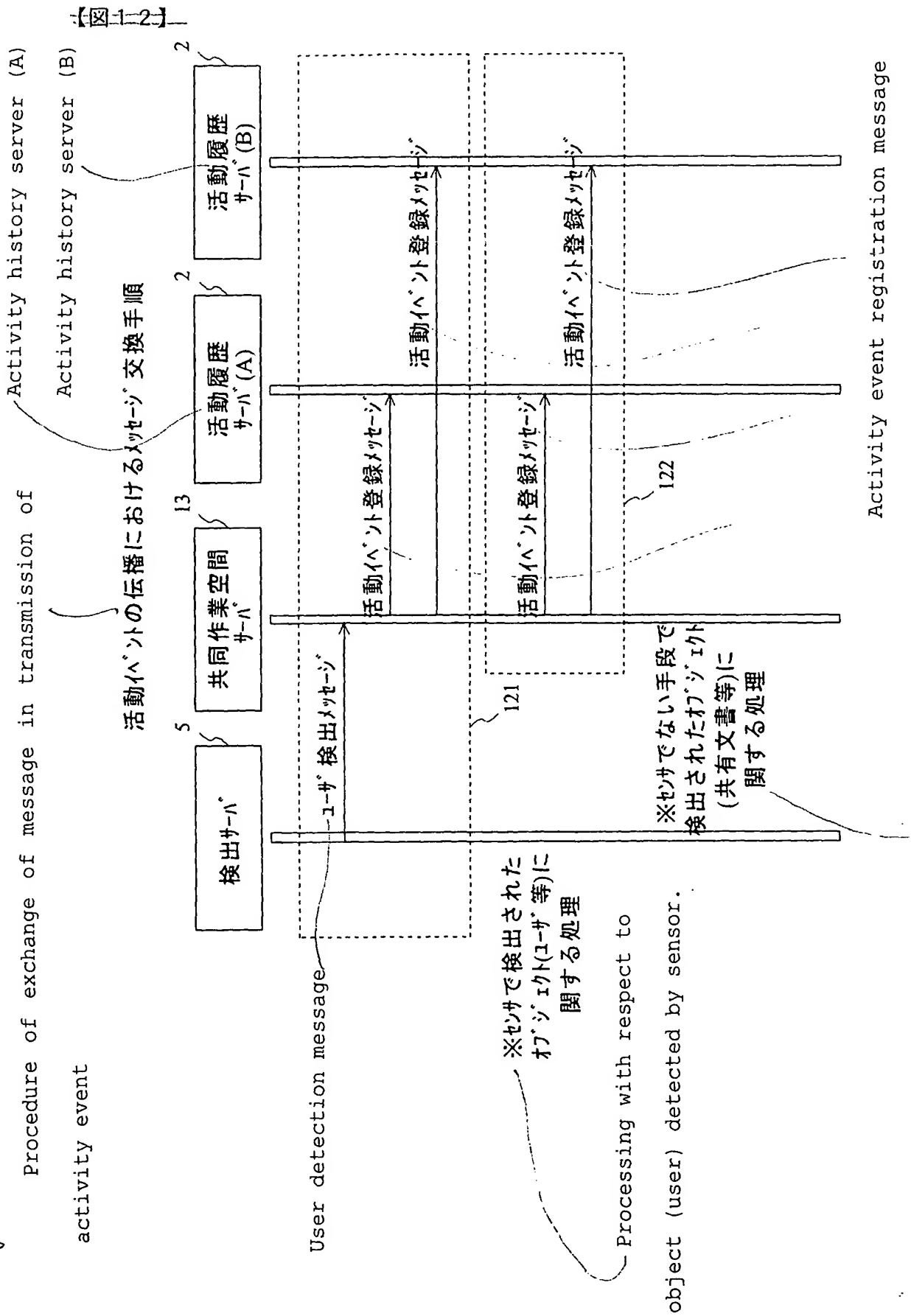
S110 Detect "object context change event".

S111 Register detected object in "collaborative activity object set".

S112 Generate activity event registration message.

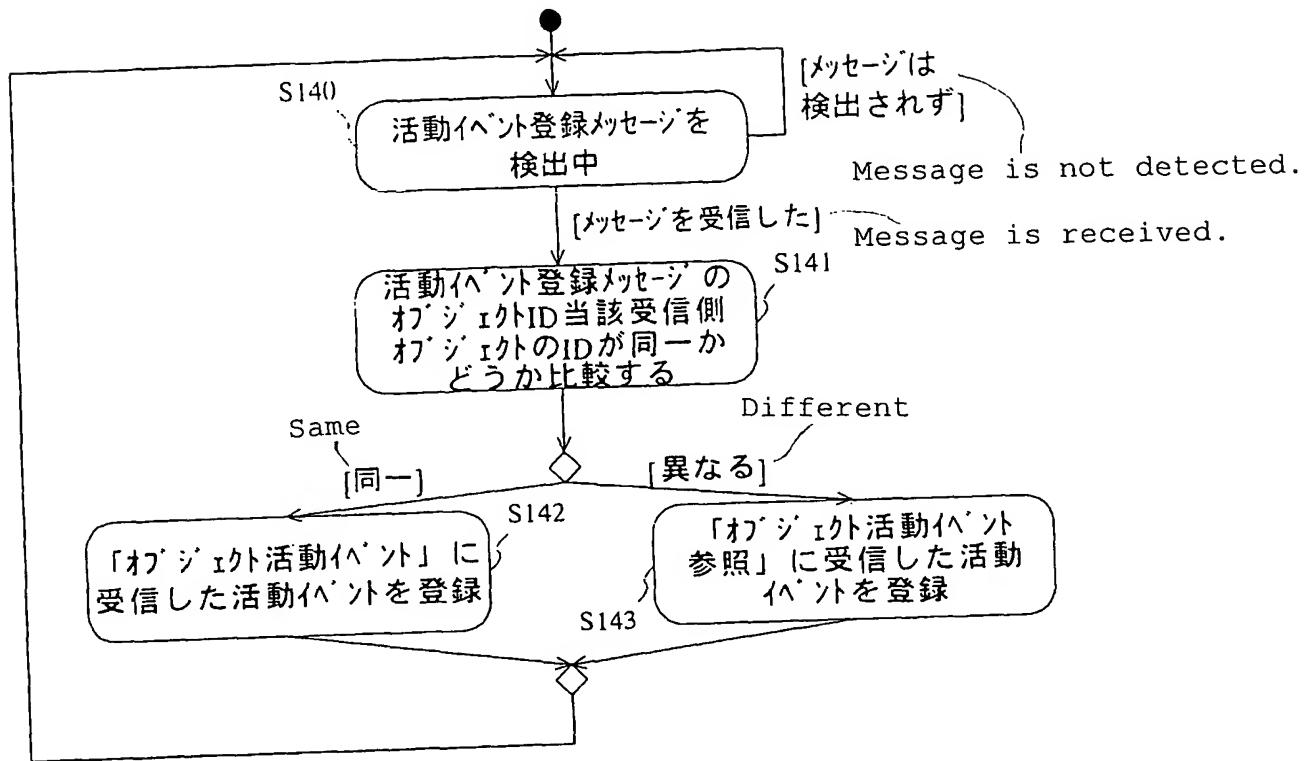
S113 Send activity event registration message to activity history servers with respect to all objects included in "collaborative activity object set".

Fig. 12



【図14】 Processing of registration of receipt of activity event

活動イベントの受信登録処理



S140 Activity event registration message is being detected.

S141 Compare to check whether or not ID of object on receiving side of object ID of activity event registration message is the same.

S142 Register activity event received in "object activity event".

S143 Register activity event received in "object activity event reference".

Fig. 14

【図15】

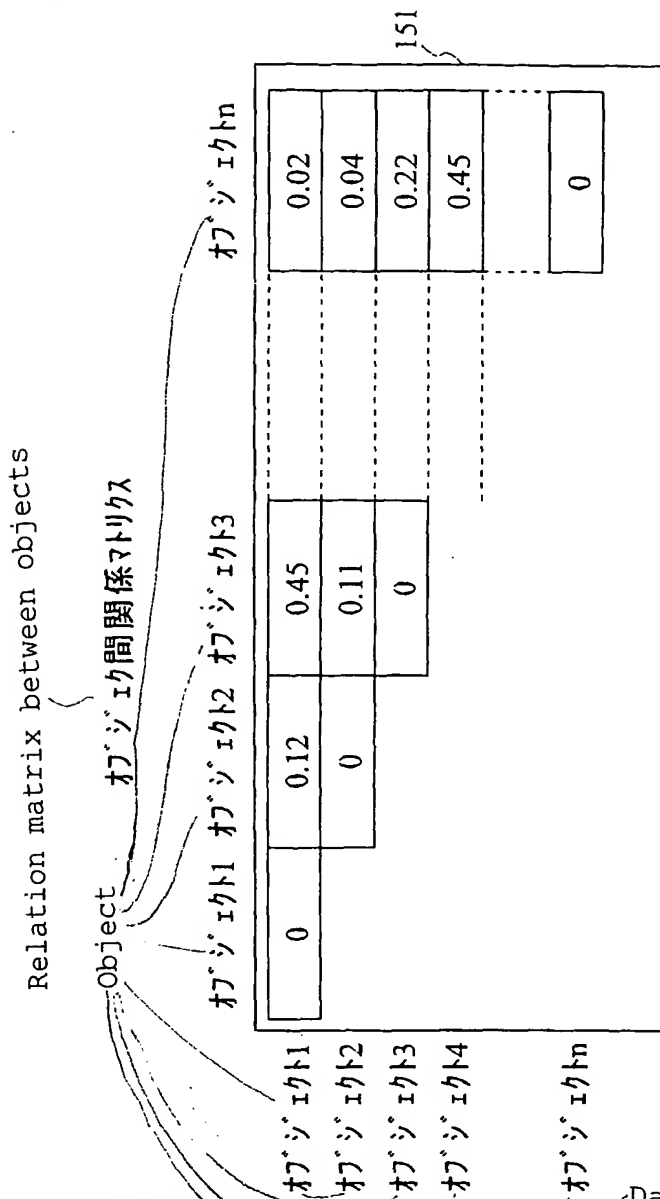
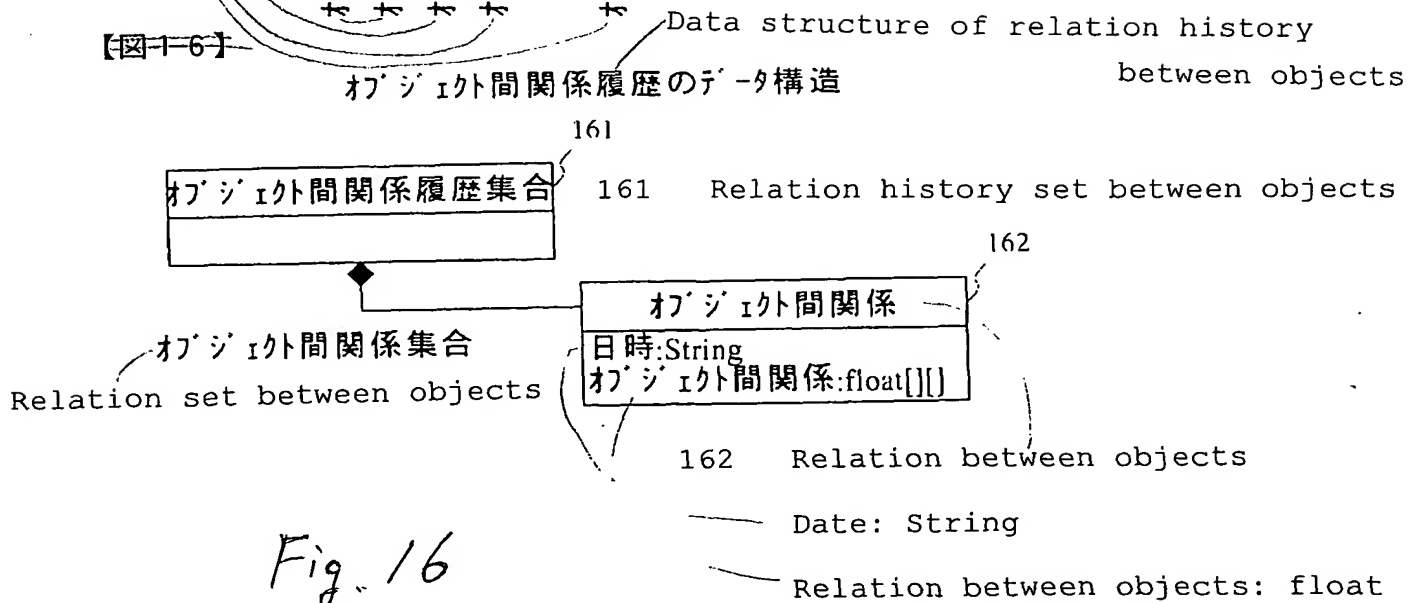
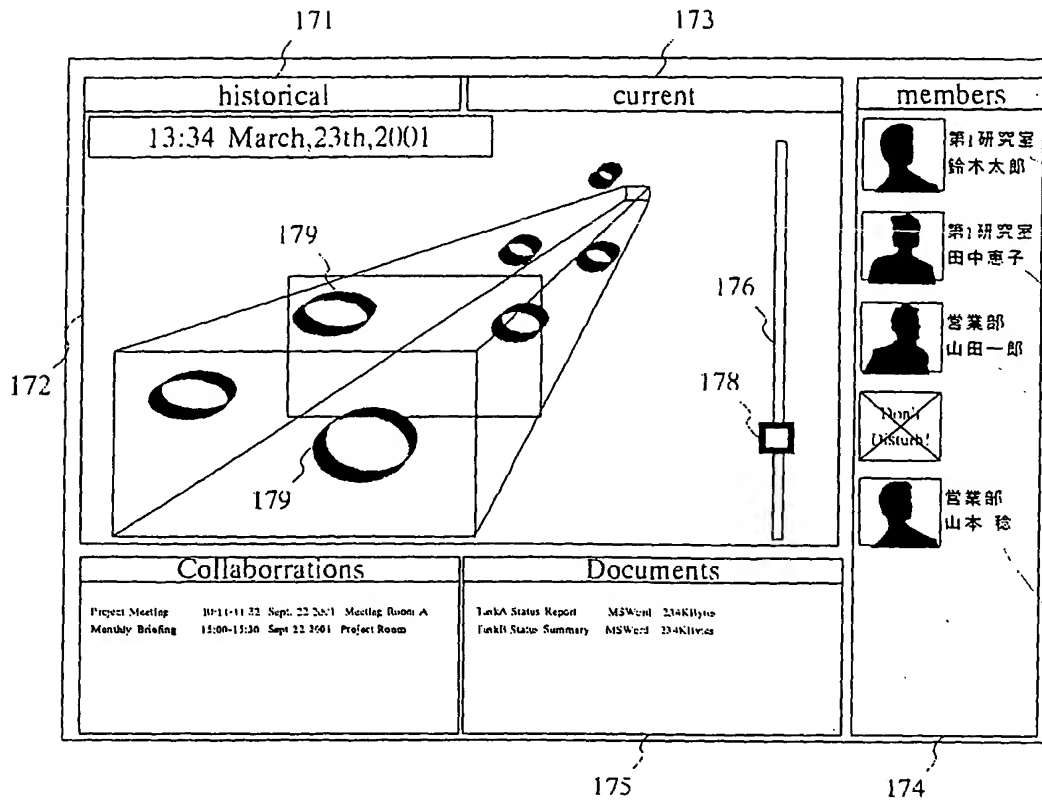


Fig. 15

【図16】





First laboratory Taro Suzuki

First laboratory Keiko Tanaka

Business department Ichiro Yamada

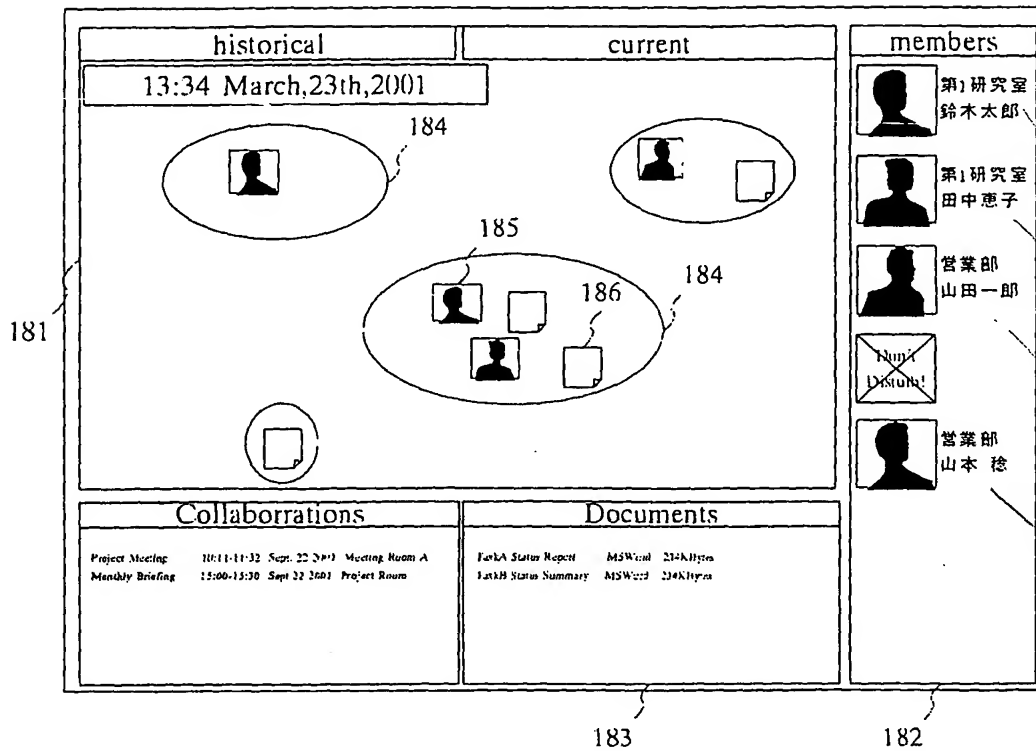
Business department Minoru Yamamoto

Fig. 17

Interface for displaying an overview of activity history

【図18】

活動履歴俯瞰表示インターフェース



First laboratory Taro Suzuki

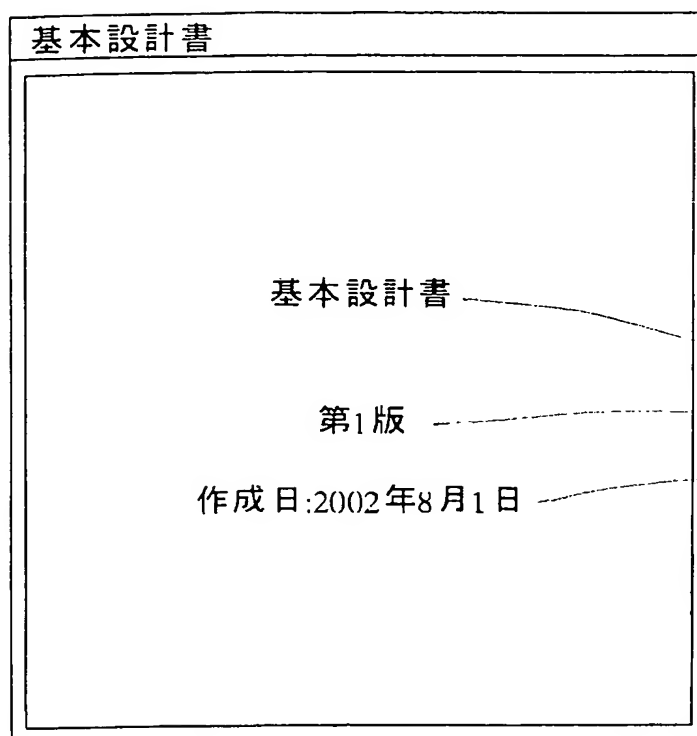
First laboratory Keiko Tanaka

Business department Ichiro Yamada

Business department Minoru Yamamoto

Fig. 18

共有文書ビュー



View of common document

Basic design document

First edition

Date: August 1, 2002

Fig. 19

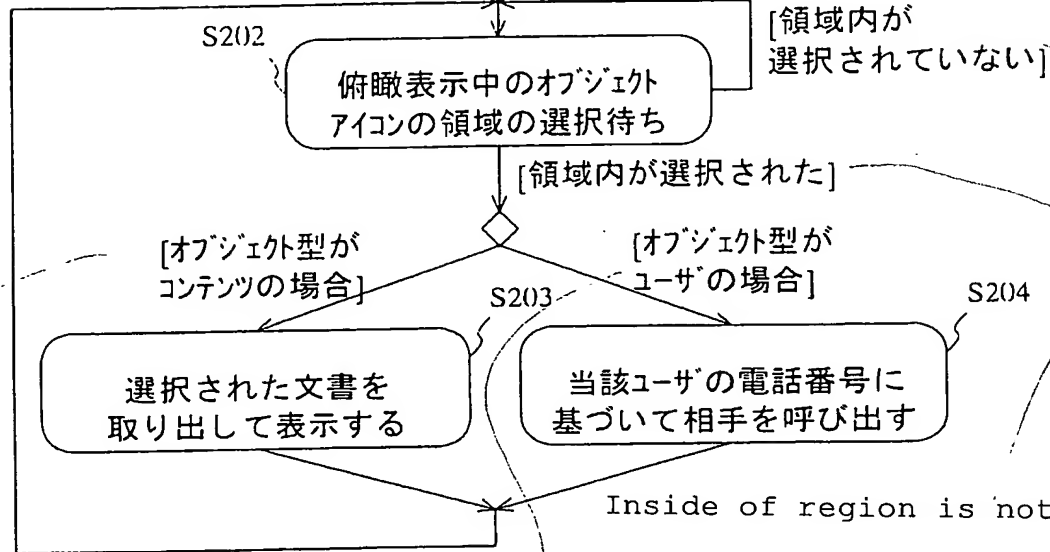
オブジェクト間関係の俯瞰表示処理

Processing of display of an

overview of relation between objects

S200
共同活動イベント集合から共同活動イベントを
取り出しオブジェクト間の関係を計算

S201
オブジェクト間関係マトリックスをもとに
オブジェクト間の関係を俯瞰表示する



Inside of region is not selected.

Inside of region is selected.

"In case where object type is contents"

"In case where object type is user"

S200 Pick up collaborative activity event from collaborative activity event set and calculate relation between objects.

S201 Display an overview of relation between objects together with relation matrix between objects.

S202 Wait for selection of object icon region displayed.

S203 Pick up and display selected document.

S204 Make phone call to opponent according to telephone number of user concerned.

Fig. 20

Fig. 21

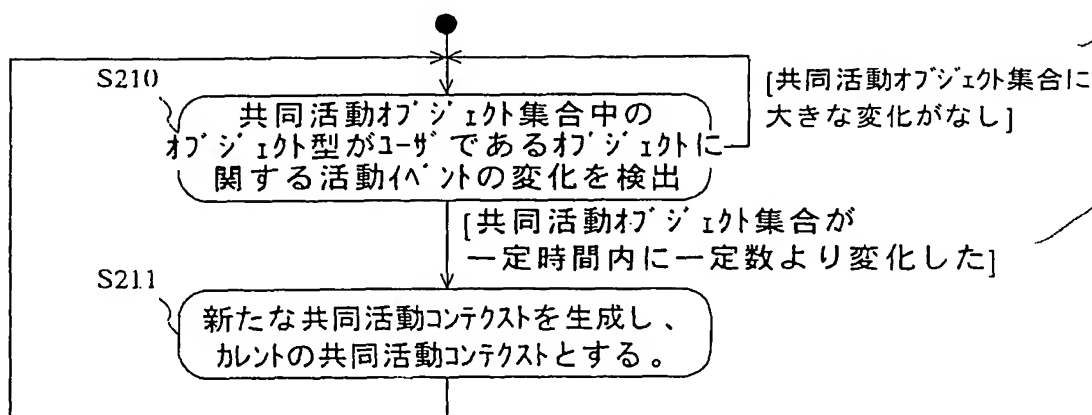
Processing of generation of collaborative activity context

Collaborative activity object set is not greatly changed.

Collaborative activity object set is changed from predetermined number in predetermined period of time.

【図21】

共同活動コンテキストの生成処理



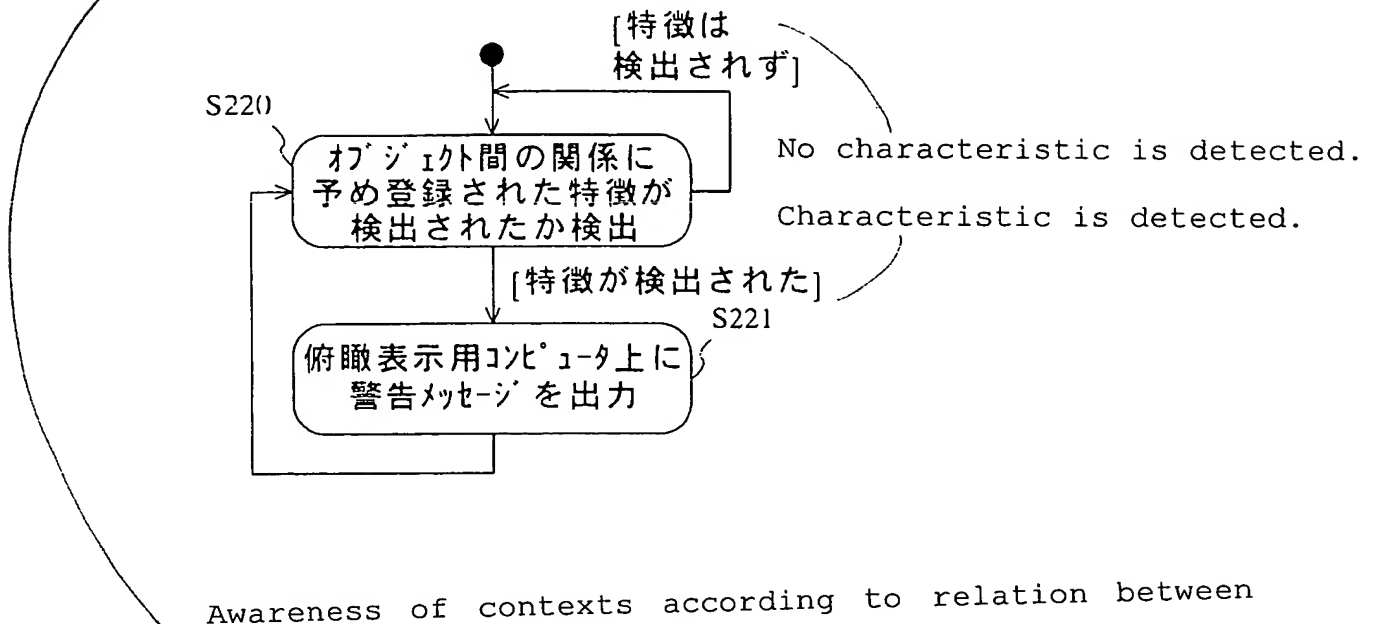
S210 Detect change in activity event with respect to object, object type of which is user, in collaborative activity object set.

S211 Generate new collaborative activity context so as to use as current collaborative activity context.

Fig. 22

【図22】

検出されたオブジェクト間の関係に基づく状況のAUI7



S220 Detect whether or not characteristic previously registered in relation between objects has been detected.

S221 Output warning message from computer for displaying an overview.